

NOTAR032.ST25  
SEQUENCE LISTING

<110> POCCIA, Fabrizio et al.

<120> Method and diagnostic tests based on flow cytometric analysis of antigen-specific T lymphocytes

<130> NOTAR-0032US

<140> US 10/567,541

<141> 2006-02-06

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<151> 2003-08-05

<160> 172

<170> PatentIn version 3.3

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&lt;400&gt; 11

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&lt;210&gt; 12

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&lt;213&gt; Human immunodeficiency virus type 1

&lt;400&gt; 12

Ala	Thr	Pro	Gln	Asp	Leu	Asn	Met	Met	Leu	Asn	Ile	Val	Gly	Gly
1				5					10					15

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&lt;211&gt; 15

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&lt;213&gt; Human immunodeficiency virus type 1

&lt;400&gt; 13

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1				5					10					15

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&lt;211&gt; 15

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&lt;213&gt; Human immunodeficiency virus type 1

&lt;400&gt; 14

Gln	Asp	Leu	Asn	Met	Met	Leu	Asn	Ile	Val	Gly	Gly	His	Gln	Ala
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&lt;210&gt; 15

&lt;211&gt; 15

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&lt;400&gt; 15

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Thr Leu Tyr Gln Asp Gly Met Leu Arg Phe Asn Val Thr Cys Asp  
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&lt;400&gt; 34

Thr Glu Ala Pro Ala Asp Pro Val Ala Phe Arg Leu Arg Leu Arg  
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&lt;211&gt; 15

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&lt;213&gt; Human cytomegalovirus

&lt;400&gt; 35

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&lt;210&gt; 36

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&lt;213&gt; Human cytomegalovirus

&lt;400&gt; 36

Arg Arg Pro Phe Phe Ser Asp Ala Pro Leu Pro Tyr Phe Val Pro  
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&lt;400&gt; 37

Asp Glu Gly Leu Glu Val Arg Val Pro Tyr Glu Leu Thr Leu Lys  
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&lt;400&gt; 38

Arg Ile Tyr Arg Arg Phe Tyr Gly Pro Tyr Leu Gly Val Phe Val  
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Ala Leu Leu Gly Arg Leu Tyr Phe Ile Ser Ser Lys His Thr Leu  
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Lys Met Lys Glu Leu Ser Pro Arg Trp Tyr Phe Tyr Tyr Leu Gly  
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Glu Thr Ala Leu Ala Leu Leu Leu Leu Asp Arg Leu Asn Gln Leu  
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Arg Leu Asp Lys Val Glu Ala Glu Val Gln Ile Asp Arg Leu Ile  
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Tyr Phe Val Gly Tyr Leu Lys Pro Thr Thr Phe Met Leu Lys Tyr  
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Gly Ser Phe Cys Thr Gln Leu Asn Arg Ala Leu Ser Gly Ile Ala  
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<400> 68

Val Lys Gln Met Tyr Lys Thr Pro Thr Leu Lys Tyr Phe Gly Gly  
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Ala Gly Phe Met Lys Gln Tyr Gly Glu Cys Leu Gly Asp Ile Asn  
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Pro Pro Leu Leu Thr Asp Asp Met Ile Ala Ala Tyr Thr Ala Ala  
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<400> 71

Ile Ser Ser Val Leu Asn Asp Ile Leu Ser Arg Leu Asp Lys Val  
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<400> 72

Thr Gln Gln Leu Ile Arg Ala Ala Glu Ile Arg Ala Ser Ala Asn  
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&lt;400&gt; 73

Leu Asp Ser Phe Lys Glu Glu Leu Asp Lys Tyr Phe Lys Asn His  
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&lt;210&gt; 74

&lt;211&gt; 15

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&lt;213&gt; Bacillus anthracis

&lt;400&gt; 74

Glu Ser Glu Ser Ser Ser Gln Gly Leu Leu Gly Tyr Tyr Phe Ser  
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&lt;210&gt; 75

&lt;211&gt; 15

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&lt;213&gt; Bacillus anthracis

&lt;400&gt; 75

Asn Ile Pro Ser Glu Asn Gln Tyr Phe Gln Ser Ala Ile Trp Ser  
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&lt;210&gt; 76

&lt;211&gt; 15

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&lt;213&gt; Bacillus anthracis

&lt;400&gt; 76

Gln Tyr Gln Arg Glu Asn Pro Thr Glu Lys Gly Leu Asp Phe Lys  
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&lt;210&gt; 77

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Bacillus anthracis

&lt;400&gt; 77

Ile Ser Asn Ile His Glu Lys Lys Gly Leu Thr Lys Tyr Lys Ser  
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&lt;210&gt; 78

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Bacillus anthracis

&lt;400&gt; 78

Val Ser Pro Glu Ala Arg His Pro Leu Val Ala Ala Tyr Pro Ile  
 1 5 10 15

&lt;210&gt; 79

&lt;211&gt; 15

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Pro Ile Tyr Asn Val Leu Pro Thr Thr Ser Leu Val Leu Gly Lys  
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Lys Ala Lys Glu Asn Gln Leu Ser Gln Ile Leu Ala Pro Asn Asn  
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Asn Ile Asp Lys Asp Ile Arg Lys Ile Leu Ser Gly Tyr Ile Val  
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Phe Ile Asp Phe Lys Lys Tyr Asn Asp Lys Leu Pro Leu Tyr Ile  
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Ser Lys Asn Glu Ala Glu Lys Leu Ile Thr Ser Ala Phe Asp Leu  
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Thr Arg Glu Arg Asn Lys Ile Val Glu Leu Glu Lys Glu Leu Asn  
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Thr Leu Pro Asn Lys Ser Asp Val Leu Thr Thr Trp Leu Ile Asp  
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Gly Pro Ser Thr Tyr Tyr Pro His Tyr Lys Ser Cys Ala Leu Val  
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Thr Ser Pro Ala Arg Glu Asn Tyr Phe Met Arg Trp Leu Ser Asp  
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Val Ile Pro Ala Lys Lys Ile Ile Asp Trp Lys Asn Ala Asn Pro  
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&lt;400&gt; 96

Met	Ala	Ser	Leu	Leu	Tyr	Phe	Ile	Leu	Phe	Leu	Leu	Phe	Val	Cys
1			5						10					15

&lt;210&gt; 97

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Variola virus

&lt;400&gt; 97

Ile	Phe	Thr	Asp	Ala	Ser	Thr	Val	Ala	Ser	Ala	Gln	Ile	Tyr	Leu
1				5					10					15

&lt;210&gt; 98

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Variola virus

&lt;400&gt; 98

Thr	Ser	His	Leu	Asn	Pro	Ser	Ile	Glu	Lys	His	Val	Gly	Ile	Tyr
1			5						10					15

&lt;210&gt; 99

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Variola virus

&lt;400&gt; 99

Leu	Ser	Ala	Lys	Val	Tyr	Met	Leu	Glu	Asn	Ile	Gln	Val	Met	Lys
1			5						10					15

&lt;210&gt; 100

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Variola virus

&lt;400&gt; 100

Thr	Tyr	His	Leu	Glu	Asn	Asp	Lys	Ile	Glu	Asp	Leu	Ile	Asn	Gln
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&lt;210&gt; 101

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Variola virus

&lt;400&gt; 101

Asp	Ser	Met	Tyr	Val	Ile	Pro	Asp	Glu	Leu	Ile	Asp	Val	Leu	Lys
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Ala Tyr Val Pro Ala Met Phe Thr Ala Ala Leu Asn Ile Gln Thr  
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Val Ile Gly Val Ile Ile Leu Ala Ala Leu Phe Met Tyr Tyr Ala  
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<400> 104

Lys Gly Glu Glu Glu Leu Gln Lys Tyr  
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Phe Thr Glu Ile Gln Lys Leu Val Leu  
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Ser Ser Leu Val Val Asp Glu Thr Tyr  
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Ile Thr Glu Cys Cys Lys Leu Thr Thr  
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Ser Arg Thr Leu His Arg Asn Glu Tyr  
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Ala Gln Phe Val Gln Glu Ala Thr Tyr  
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Phe Leu Ala Ser Phe Val His Glu Tyr  
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Val Ile Leu Arg Val Ala Lys Gly Tyr  
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His Glu Lys Glu Ile Leu Glu Lys Tyr  
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Gln Ser Glu Glu Gly Arg His Asn Cys  
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Gly Ser Glu Pro Cys Ala Leu Pro Glu  
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Ser His Ser Phe Pro His Pro Leu Tyr  
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Ser Pro Glu Cys Ile Phe Ile Cys Ala  
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Ala Ser Glu Ser Glu Met Ile Asn Ile  
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Glu Ser Glu Met Ile Asn Ile Asn Pro  
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Ala Leu Pro Glu Arg Pro Ser Leu Tyr

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Ser Leu Tyr Thr Lys Val Val His Tyr  
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Ala Thr Glu Ser Pro Glu Cys Ile Phe  
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Arg Thr Glu Ile Asn Lys Ala Leu Leu  
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Glu Met Glu Asn Gly Glu Leu Ala Ser  
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Leu Tyr Asp Met Ser Leu Leu Lys Asn  
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Ser His Asp Leu Met Leu Leu Arg Leu  
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&lt;211&gt; 9

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&lt;213&gt; Homo sapiens

&lt;400&gt; 137

Ser Ile Glu Pro Glu Glu Phe Leu Thr  
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&lt;211&gt; 9

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&lt;400&gt; 138

Arg Thr Glu Ile Asn Ser Glu Met Glu  
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&lt;400&gt; 139

Glu Pro Ala Leu Gly Thr Thr Cys Tyr  
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&lt;213&gt; Homo sapiens

&lt;400&gt; 140

Ser Gly Asp Ser Gly Gly Pro Leu Val  
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&lt;400&gt; 141

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Glu Val Asp Pro Ile Gly His Leu Tyr  
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Ser Ser Leu Pro Thr Thr Met Asn Tyr  
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Ile Ser Gly Gly Pro His Ile Ser Tyr  
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Leu Val His Phe Leu Leu Leu Lys Tyr  
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Phe Ala Thr Cys Leu Gly Leu Ser Tyr  
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Gly Ser Val Val Gly Asn Trp Gln Tyr  
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Leu Gly Asp Pro Lys Lys Leu Leu Thr  
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Phe Val Gln Glu Asn Tyr Leu Glu Tyr  
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Gly Glu Asn Phe Ala Met Ile Leu Tyr  
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Ala Thr Glu Glu Gln Gln Ala Ala Ser  
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Ala Thr Glu Asp Ala Asn Thr Ile Gly  
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Arg Gly Glu Ala Leu Gly Leu Val Gly  
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Glu Ser Glu Phe Gln Ala Ala Leu Ser  
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Gly Ser Asp Pro Ala Cys Tyr Glu Phe  
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Ser Pro Asp Pro Pro Gln Ser Pro Gln  
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Gly Ile Glu Met Cys Ala Ala Asn Tyr  
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&lt;400&gt; 159

Ala Gln Asp Ala Pro Pro Leu Pro Val  
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&lt;210&gt; 160

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 160

Ala Ala Asp His Arg Gln Leu Gln Leu  
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&lt;210&gt; 161

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 161

Arg Thr Glu Ile Asn His Met Ser Ala  
1 5

&lt;210&gt; 162

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 162

Gly Pro Glu Ser Arg Leu Leu Glu Phe  
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&lt;210&gt; 163

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 163

Phe Thr Val Ser Gly Asn Ile Leu Thr  
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&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 164

Pro Glu Ser Arg Leu Leu Glu Phe Tyr  
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Leu Pro Val Pro Gly Val Leu Leu Lys  
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Cys Phe Leu Pro Val Phe Leu Ala Gln  
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Ser Ser Cys Leu Gln Gln Leu Ser Leu  
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Asp Ala Asp Gly Pro Gly Gly Pro Gly  
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Ile Pro Asp Gly Pro Gly Gly Asn Ala  
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Asn Tyr Glu Ser Pro Arg Thr Glu Ile  
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Gln Ala Glu Gly Arg Gly Thr Gly Gly  
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